First Alert®

Indoor/Outdoor Analog Wired Cameras with 7” LCD Monitor and Built-In DVR
Model HS-4700-S

USER'S MANUAL

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Safety

SAFETY PRECAUTIONS

- Do not drop, puncture, or disassemble the camera or monitor.
- Never tug on the power adapter. Use the plug to remove it from the wall.
- Do not expose the camera or monitor to high temperatures.
- Use the device with care. Avoid pressing hard on the camera body.
- Do not crush or damage the power cable.

FCC COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions: (1) this device may cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur with a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the received is connected.
- Consult the dealer or an experience radio/TV technician for help.

***Notice**: Changes or modifications to the product could void the user's authority to operate the product.*

DISPOSAL

These symbols indicate that it is prohibited to dispose of these batteries in the household waste. You can take spent batteries that can no longer be charged to the designated collection points in your community.

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Getting to Know Your HS-4700-S System

Congratulations on purchasing your First Alert Security Camera product. First Alert has been helping families and businesses stay safe for over 50 years. By having a First Alert Security Camera, you're taking the first step in protecting your home or business from damage or theft. We're watching, even when you're not.

CHECK PACKAGE CONTENTS

After unpacking the carton, check the contents for damage. Contact your supplier or dealer immediately if any part is missing or damaged. Your Model HS-4700-S security system consists of:

- 7" LCD monitor with 320GB MJPEG DVR system (1)
- Wired indoor/outdoor cameras (4)
- Camera stands (4)
- Mounting kits (4)
- 60 ft BNC cable (4)
- Remote control (1)
- Mouse (1)
- USB cable (1)
- Power supply (1)
- Installation CD (1)
- User's manual (1)

ABOUT THE DVR

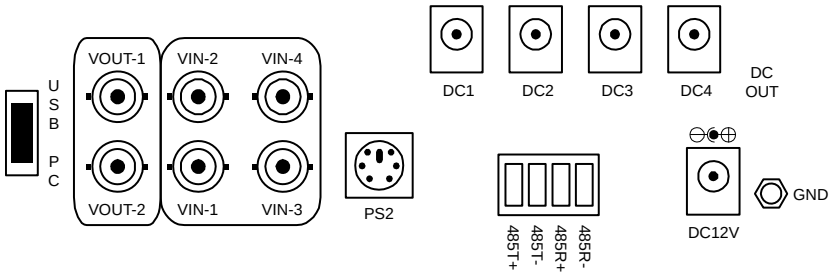
The Model HS-4700-S security system has a 7” LCD monitor with built-in 320GB MJPEG DVR. The features of the front and rear panels follow.

FRONT PANEL CONTROLS

1	Channel switch buttons (4)	**8**	Arrow buttons (4)
2	Four-screen display button	**9**	ENTER button
3	Manual record button	**10**	Power indicator
4	Menu button	**11**	Run indicator
5	PTZ control button*	**12**	Record status indicator
6	Play button	**13**	USB status indicator
7	ESC button	**14**	LCD power switch

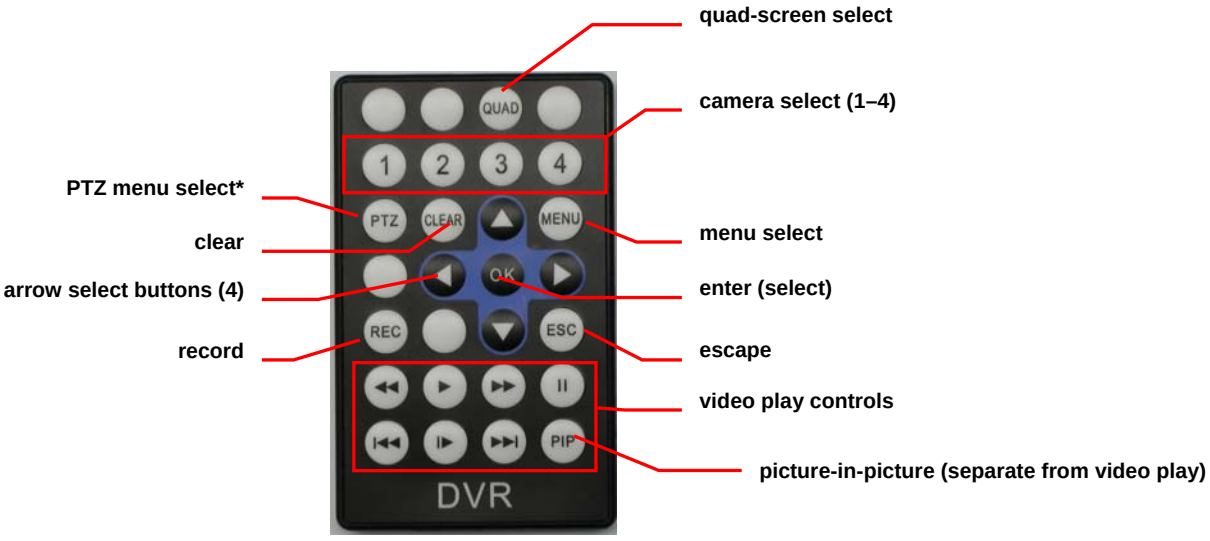
* Cameras supplied with HS-4700-S system are not equipped with PTZ feature.

REAR PANEL INTERFACE



USB PC	USB connection to PC
PS2	Serial port to PC for mouse
485T / 485R	PTZ connector*
VOUT1, 2	Video output connector
VIN-1, 2, 3, 4	Camera video input
DC1, 2, 3, 4	DC 12V output power for cameras
DC 12V	DC input power to DVR system

ABOUT THE REMOTE CONTROL



* Cameras supplied with HS-4700-S system are not equipped with PTZ feature.

ABOUT THE CAMERAS

The Model HS-4700-S security system includes four wired indoor/outdoor color CMOS security cameras, camera stands, mounting kits, and 60 feet of BNC cables.

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Setting Up Your HS-4700-S System

This chapter provides instructions on installing and connecting the cameras supplied with the system and connecting the DVR.

INSTALLING AND CONNECTING THE CAMERAS

Here are some general safety and installation tips when installing the cameras:

- Do not attempt to open a camera. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.
- When using power tools wear safety goggles. Before drilling holes through a wall or ceiling, check for hidden electricity cables and water pipes.
- When installing a camera on an external wall, pass the power cable through the wall as close as possible to the camera to reduce the chance of tampering. After drilling any hole though an external wall for cable, make sure the hole is sealed around the cable.

1 Select the position for the camera and install a mounting bracket (supplied).

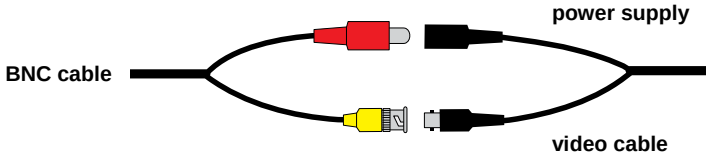
Screws and anchors are supplied. Use an appropriate screw type for the mounting surface.

2 Screw the camera onto the bracket. Tighten the lock nut to secure the camera on the bracket.

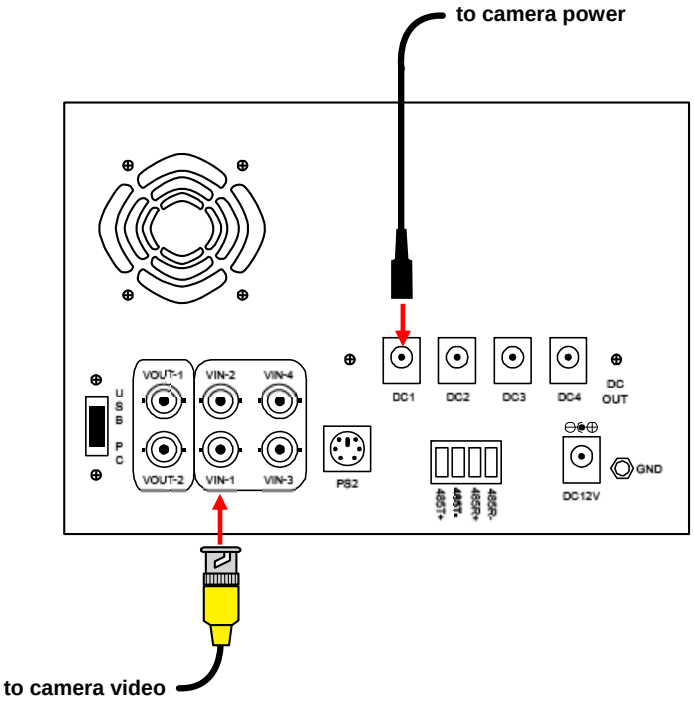
3 Adjust camera to the proper view angle. Make sure the lens is upright relative to your subject. Tighten the thumb bolt.

4 Connect the camera power and video connectors to the corresponding connectors on the BNC cable (supplied).

The connectors on the cables are not weather resistant and should be sheltered from moisture, rain and sunlight.



5 Connect the power cable from the camera to the DC1 connector on the rear of the DVR. Connect the video cable to the VIN1 connector. Repeat connection for all four cameras.

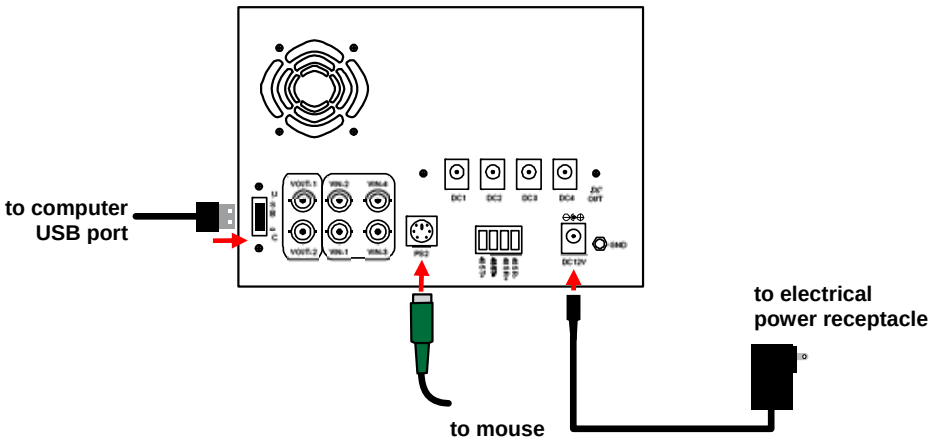


CONNECTING THE DVR

1 Connect the mouse to the PS2 port on the DVR prior to plugging in DVR power supply.

2 Connect the cable of the power supply adapter to the DC 12V connector on the DVR.

3 Plug the power supply into an electrical outlet. The DVR automatically powers on when plugged in.



4 (optional) Attach a ground wire from the GND connector on the DVR to an appropriate ground (e.g., mounting screw on the receptacle cover plate).

5 Press the LCD Power button on the front of the DVR to turn on display. This button ***only*** controls the display, not the DVR unit.

The POWER indicator light on the front panel will light. When system initialization (boot up) is complete, the image from each active camera will display on the quad-screen monitor. The RUN indicator will flash when the system is operating in normal mode.

Note: Be sure to connect all components to the monitor prior to plugging in unit.

6 (optional) The DVR can be connected to an external display (i.e. television or computer monitor) to view live video feed via the Video Out connection. Though the DVR screen is programmed to shut off after 30 minutes to protect the display from overheating, the video feed will continue without interruption if connected to an external display.

Operating Menus

This chapter provides information about the menu screens on the LCD monitor. The screens are used to control the various functions of the DVR system. The user selects options from a series of menus and executes the actions by using the keypad on the DVR, the mouse, or the remote control.

START UP

Before turning the system on, make sure all components (camera, mouse, and DVR) are connected properly.

When the DVR is powered on, the power indicator light on the front panel will light. After the system boots-up, the camera image for each active camera will display on the quad-screen monitor. The screen displays the date, time, and channel number.

Click the left mouse button or use the panel buttons to display a single-channel preview screen. Press the ESC button or re-click the left mouse button to return to the four-screen preview.

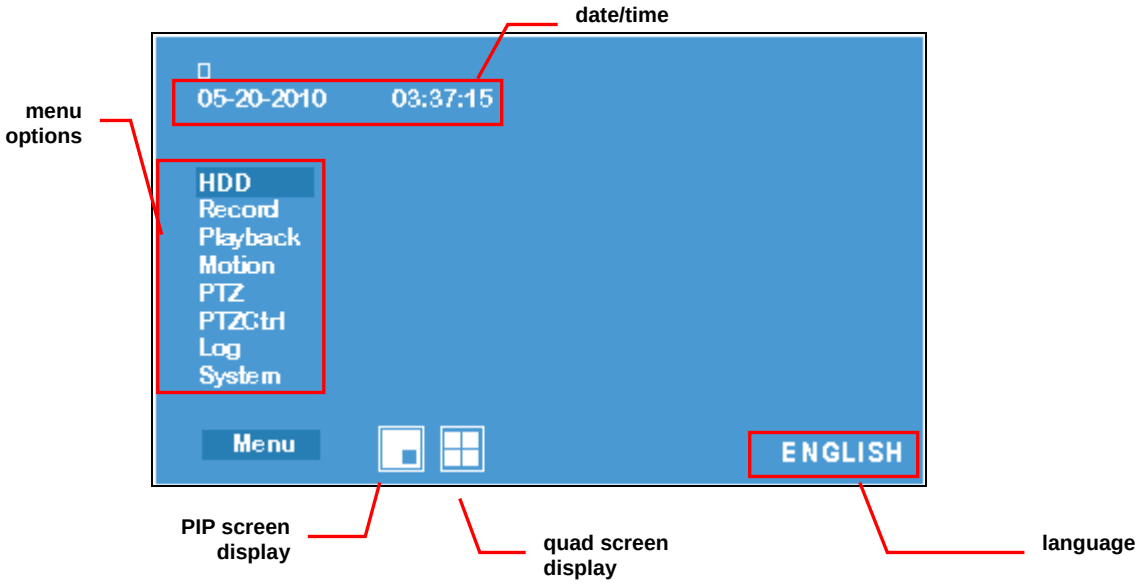
MAIN MENU

Use the Main Menu to access the operating and programming menus. The options are:

- HDD
- Record
- Playback
- Motion
- PTZ and PTZ Ctrl*
- Log
- System

The screen display options are: picture-in-picture, four-picture, and language. The selected option displays in the shortcut menu at the bottom of the screen. Use the right/left arrow buttons to toggle between icons. Press the ENTER button on the DVR or click the left mouse button to select an option.

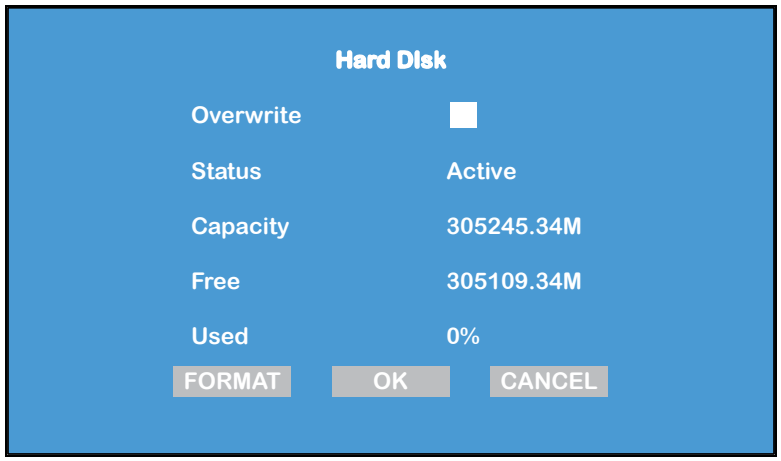
* Cameras supplied with HS-4700-S system are not equipped with PTZ feature.



HDD – HARD DISK MANAGEMENT

Access the HDD menu from the Main Menu. Use this menu to check hard drive status, capacity, available free space, and usage. The system supports hard drives up to a maximum of 1000 GB.

Note: Stop all recording before formatting a hard drive. Formatting erases all of the information on the hard drive.

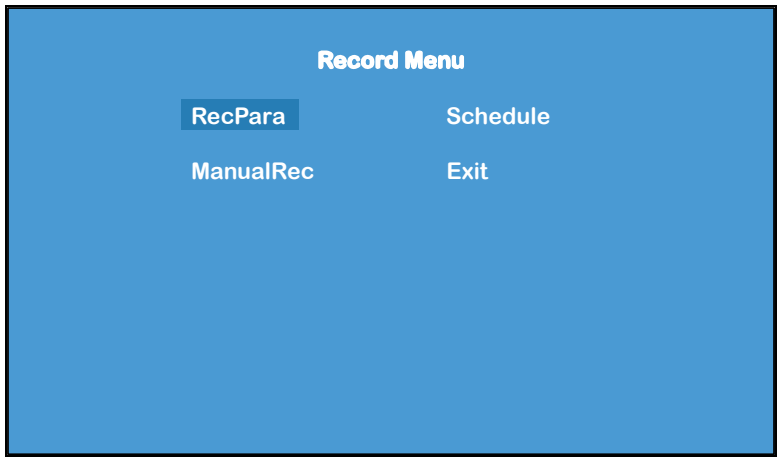


Overwrite	Select "X" in box to overwrite existing files when storage area is full. Overwrites oldest data first.
Status	Hard disk status: Active or Inactive.
Capacity	Total capacity of hard disk.
Free	Amount of hard disk space available.
Used	Amount of hard disk space already used.

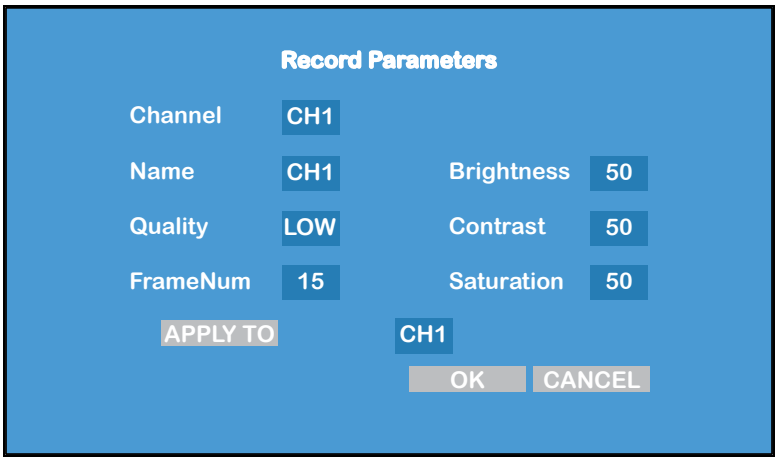
FORMAT	Click to begin formatting. A pop up message "formatted the hard disk" will confirm whether or not the new hard disk is formatted. It will remove all video files but will not destroy program files.
OK	Click to save the System setup options and return to the Main Menu
CANCEL	Click to keep the existing System setup options and return to the Main Menu

RECORD MENU

Access the Record Menu from the Main Menu. Use this menu to set up the record parameters (RecPara), record schedule, and to manually record (ManualRec) from any of the cameras.

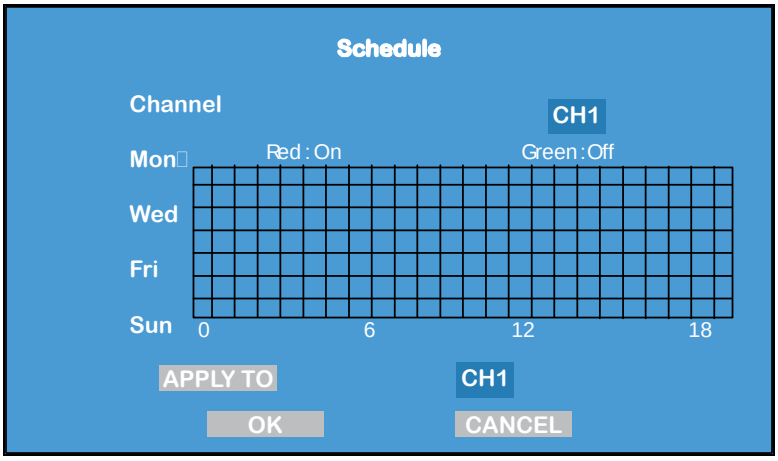


RECORD PARAMETERS (RECPARA)



Channel	Select channel 1, 2, 3, or 4.
Name	User-defined channel name.
Quality	Select one of five video quality options: minimum, low, medium, high, and highest.
Frame Num	Select one of six frame options: 01, 03, 05, 10, 15, and 30 fps (frames per second).
Brightness	Set range from 00-99; default setting is 50.
Contrast	Set range from 00-99; default setting is 50.
Saturation	Set range from 00-99; default setting is 50.
APPLY TO	Set current channel options and apply to other channels; select a channel number, then click the APPLY TO button.
OK	Click to save system setup options and return to the Main Menu.
CANCEL	Click to keep existing system setup options and return to Main Menu.

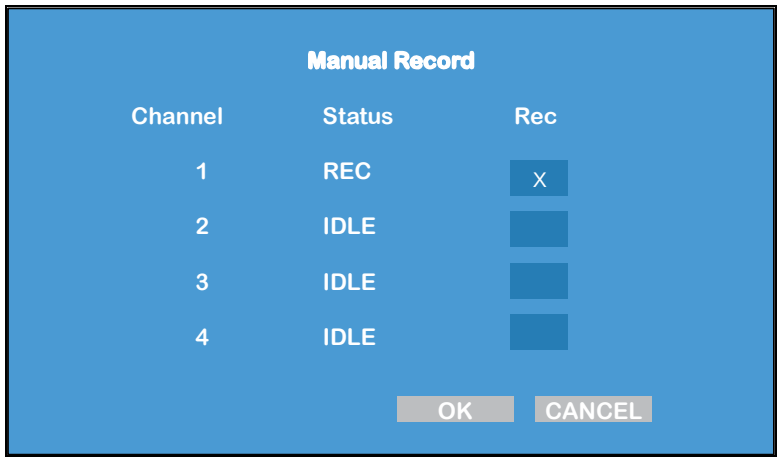
SCHEDULE RECORD



Channel	Select channel 1, 2, 3, or 4.
Setting Method	The interface box shows 7-lines (for 7 days from Monday to Sunday), 24 (for 24 hours, from left to right, 00 am to 23 points) for 24 hour time. To choose an option, Press the Menu button or click the mouse button and drag the mouse to select a time period: **green** indicates “not selected” and **red** indicates the “selected” time.
APPLY TO	Set the current channel options in the goal box and apply them to another channel. Select the channel number, and click the APPLY TO button.
OK	Click to save system options and return to Main Menu.
CANCEL	Click keep existing system options and return to Main Menu.

MANUAL RECORD

To view the setup options, press the Manual Record button or the Record button on the front panel or remote control.



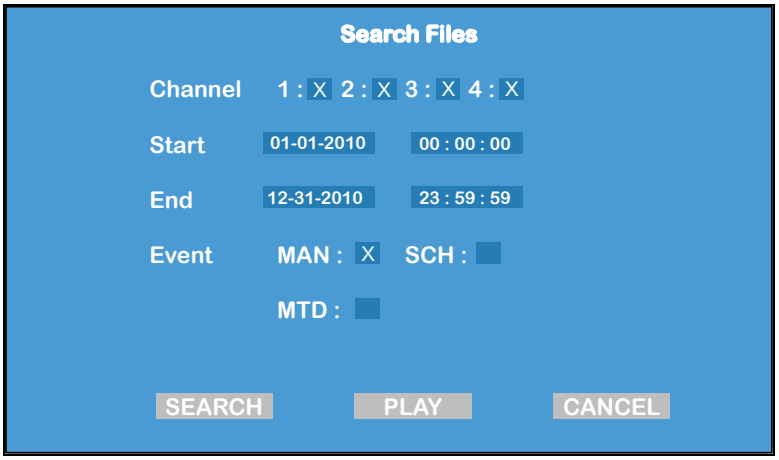
Channel	Select channel 1, 2, 3, or 4.
Status	Display the status of the selected channel. If the system is recording, the status is “REC; if not recording, the status is IDLE.
Rec	Select "X" in box to record channel video
OK	Click to save system setup options and return to Main Menu.
CANCEL	Click to keep existing system setup options and return to Main Menu.

When the system is recording, the front panel REC indicator will be lit and a green dot will display in the right corner of the preview picture for this channel.

- If the DVR turns off due to loss of power while the system is recording, the system will start recording automatically when the power is restored.
- The system cannot record if the DVR does not have a hard disk, the hard disk is being formatted, or the hard disk is full.

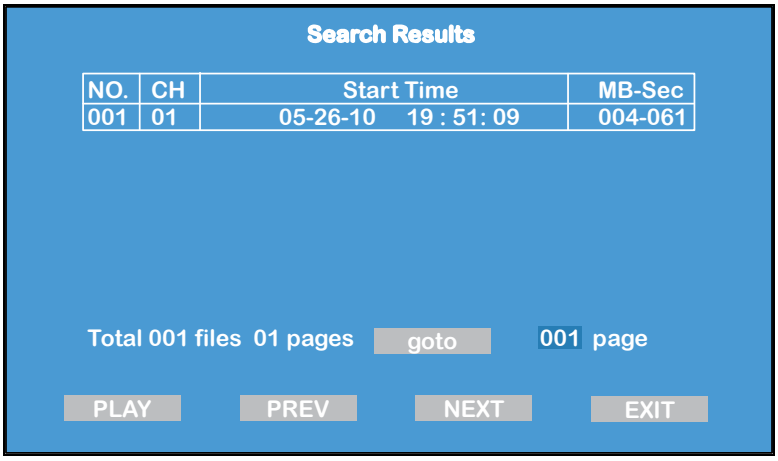
PLAYBACK AND SEARCH

Access Play (Search Files) from the Main Menu. Use this menu to search and playback video recorded from any of the cameras.



Channel	Select a channel 1, 2, 3, or 4. “X” indicates selected.
Start Time	Select the start time to begin the search function.
End Time	Select the end time to quit the search function.
Event	Select the search mode: manual, schedule, and motion. "X” indicates selected.
SEARCH	Search a recording based on selected options (above) including: serial number, channel, video recording start time, etc. In the search list, click PAGE to select the input page number or click PREV and NEXT to change the page. Move the active frame using the left and right buttons on the panel or mouse. To locate listed frame files, press the Up and Down arrow buttons or click the left and right mouse buttons to select; click PLAY to play the selected recording.
PLAY	In the search list, click PLAY to play the entire recording (based on the setup options selected).
CANCEL	Click to keep existing system setup options and return to the Main Menu.

SEARCH RESULTS



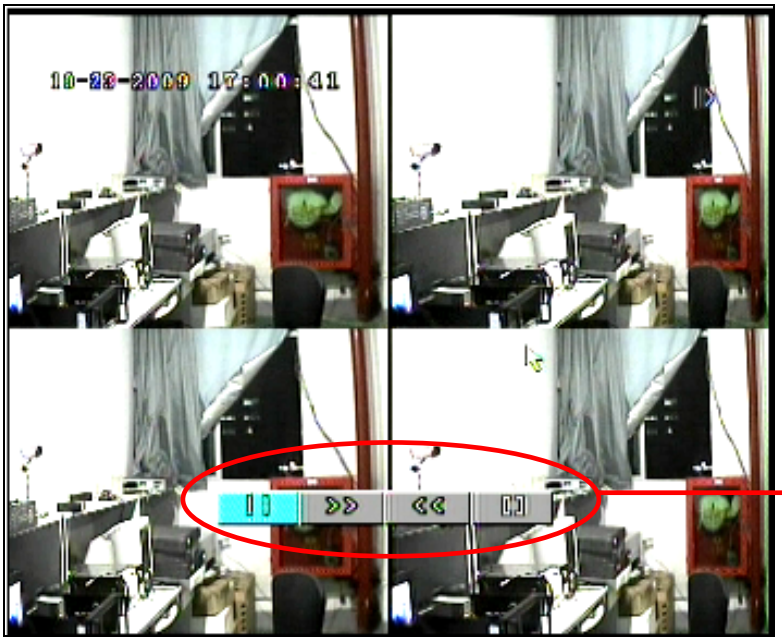
PLAY	Play the selected video segment(s).
PREV	Play previous video segment(s).
NEXT	Play next video segment(s).
CANCEL	Click to keep the existing system setup options and return to the Main Menu.

Note: The Search List can display up to 100 records starting with the earliest 100 records based on the search inquiry. If needed, select additional records by changing the search setup options.

PLAYBACK

Access the Playback (search files options) from the Main Menu. Use this menu to play back video recordings from any of the cameras.

Press the Menu button on the front panel or the right mouse button to open/close the control tool bar during playback. Select OK or click the left mouse button to reduce the size of the playback window. The display size will return to the default display after playback. Close the control tool bar and press the channel button or click the left mouse button to change the size of the playback window.

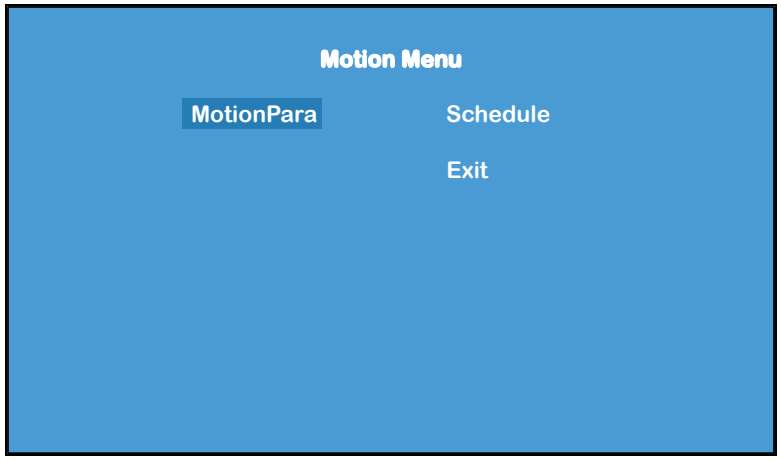


❙❙	Control Pause/Play functions.
▶▶	Control the FF (fast forward) speed of playback. Options are: 1×2 (time fast) ×4 (time fast) × 8 (time fast) ×1/2 (time fast) ×1/4 (time fast) × 1/8 (time fast) > normal.
◀◀	Normal <2 (time fast) <4 (time fast) <8 (time fast) <1/2 (time fast) <1/4 (time fast) <1/8 (time fast) <Normal.
[ ]	Stop playback and return.

MOTION MENU

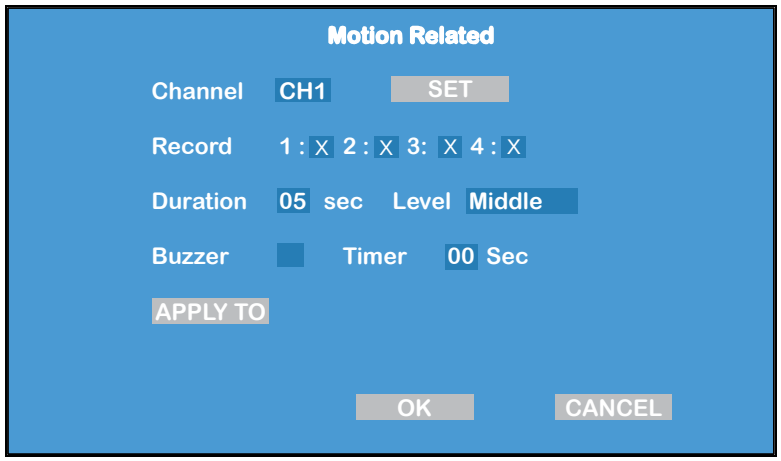
Access the Motion Menu from the Main Menu. Use this menu to record video from any camera detecting motion or to schedule specific recording times.

Schedule the time and day in Motion Menu to set when Motion Detection will be enabled.



MOTION RELATED

Choose the second-level menu Motion Para to access its setup menu.

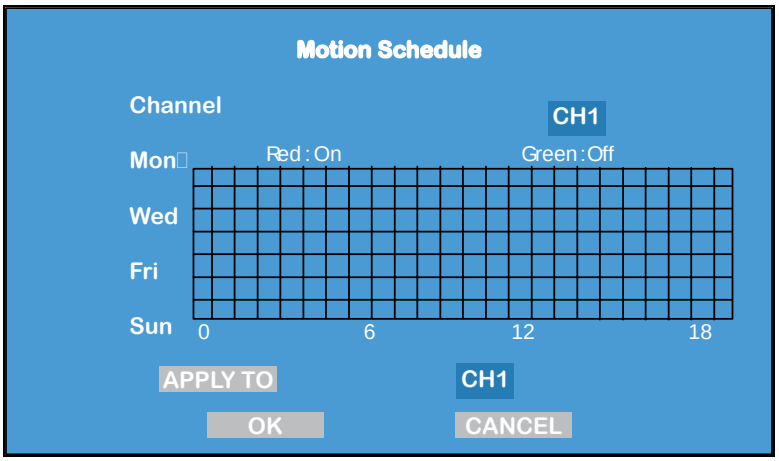


Channel	Choose a channel 1, 2, 3, or 4.
Record	Click "X" in the box to record the channel.
Video Recording	“X” indicates video recording setup is active.

Set	To select the area of display that will trigger Motion Detection.
Duration	Indicates the length of record time. Set from 05 to 99 seconds.
Level	Select the record video quality: Lowest, Low, Middle, High, Highest.
Buzzer	Triggers buzzer to alarm. "X" indicates function is active.
Timer	Indicates the length of time the buzzer will continue output. Set from 00 to 99 seconds time.
APPLY TO	Apply the current channel parameter settings to another channel. Select the choice box of the channel number that you want to set, and click the APPLY TO button.
OK	Click to save system setup parameters and return to the Main Menu.
CANCEL	Click keep existing system setup parameters and return to the Main Menu.

MOTION SCHEDULE

Select Motion Schedule on the secondary menu, and enter the settings options.



Channel	Select the channel: 1, 2, 3, or 4.
Method	There are 7 rows (for 7 days) and 24 columns (for 24 hours) in the interface box. Rows indicate Monday to Sunday and columns indicate 00:00 o'clock to 23:00 o'clock. Press the Menu button on front panel or click left mouse buttons to select a day-hour box. **Green** indicates not selected; **red** indicates selected.

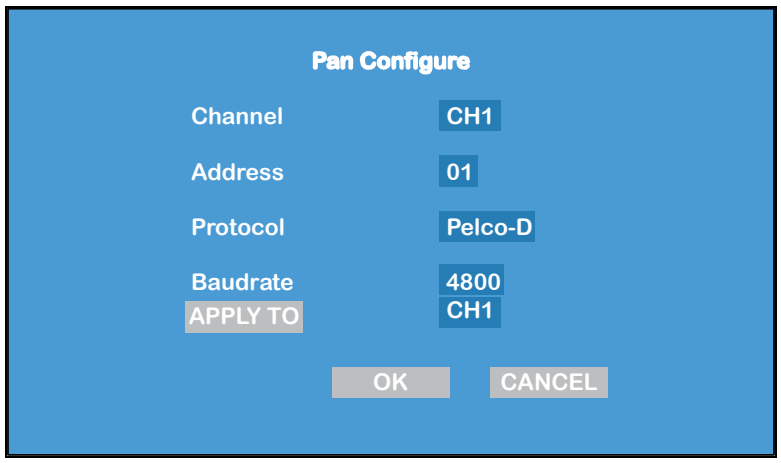
Note: HS-4700-S system uses military time (24-hour clock).

APPLY TO	Apply the current channel option settings to another channel. Select the choice box to apply the channel number and click the APPLY TO button.
OK	Click to save system setup parameters and return to the Main Menu.
CANCEL	Click to keep existing system setup options and return to the Main Menu

PTZ (OPTION)

The PTZ is an optional feature available on some cameras. This feature is not available on the cameras supplied with the HS-4700-S system, but the system software is PTZ-ready.

Access PTZ (Pan Configure) from the Main Menu. Use this menu to select the address, protocol, and baud rate for each camera.



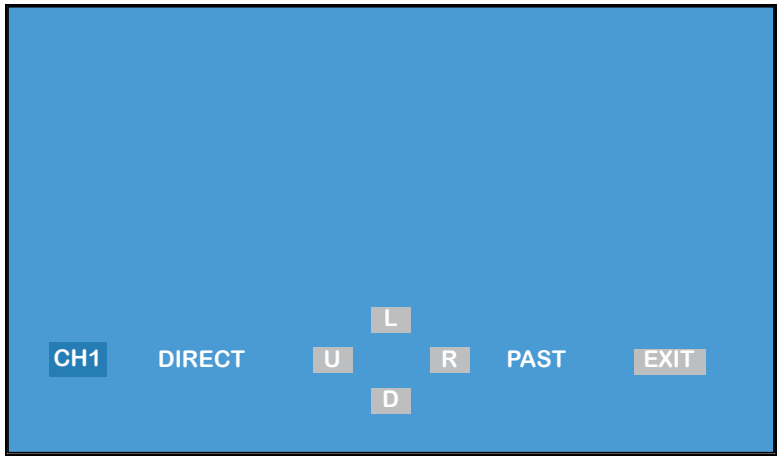
Channel	Select a channel, 1, 2, 3, or 4.
Method	PTZ communication address settings: range is 00-99. To use this address, it must be the same as the PTZ address setting.
Protocols	PTZ communication protocols are: Pelco-D, Pelco-P, B01, and Samsung.
Baud Rate	PTZ baud rate settings are: 1200 /2 400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200.
APPLY TO	Apply the current channel options settings to another channel. Select the choice box of the channel number to the applied, and click the APPLY TO button.
OK	Click to save system setup options and return to Main Menu.
CANCEL	Click to keep existing system setup options and return to Main Menu.

PTZ CONTROL (OPTION)

The PTZ is an optional feature available on some cameras. This feature is not available on the cameras supplied with the HS-4700-S system, but the system software is PTZ-ready.

Access the PTZ Control from the Main Menu. Use this menu to adjust the focus, zoom, and iris setting for a selected camera.

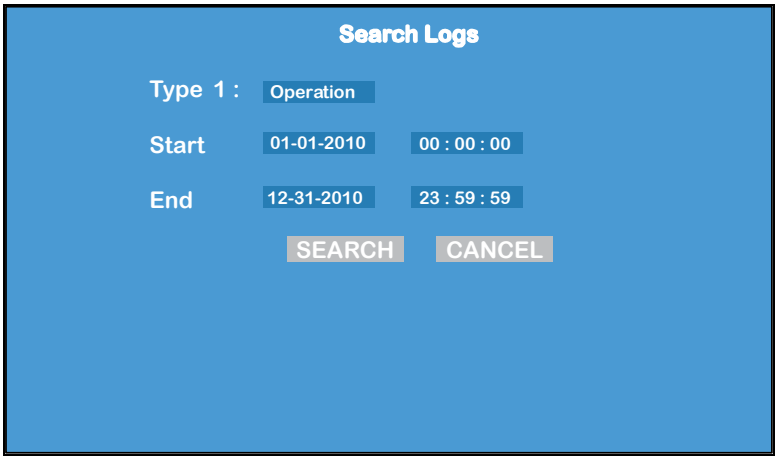
In the PTZ control screen, the optional control mode options are: Direct, Focus, Zoom, Iris, and Auto. To move the activity box, press the right/left buttons on the front panel or click the right/left mouse buttons; press the up/down arrow buttons or click the right/left mouse buttons to set up the contents.



Channel	Select a channel: 1, 2, 3, 4.
Direct	Move field of view left (L), right (R), up (U), or down (D).
Focus	Use "+" and "–" to adjust the focus.
Zoom	Use "+" and "–" to move the field of view in or out.
Iris	Use "+" and "–" to increase/decrease iris (aperture opening) to let in more/less light.
Response	Select control response speed: Slow, Normal, or Fast.

SEARCH LOGS

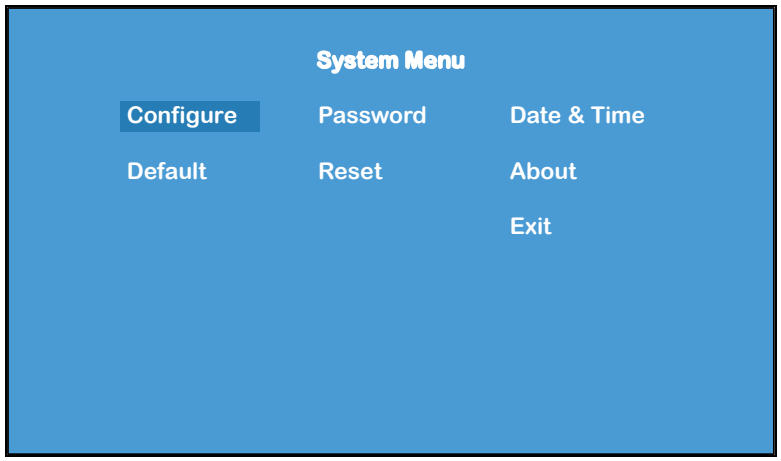
Access the Search Logs menu from the Main Menu. Use this menu to search logs for the type of log and the start/end times.



Channel	Select a channel, 1, 2, 3, or 4.
Type	Select the type of log: alarm logs or operation logs.
Start	Set the start time of the log to be searched.
End	Set the end time of the log to be searched.
SEARCH	Select the SEARCH button, the system will display the search results and log information. Input the page number, then click the GO TO button or the PREVIOUS and NEXT buttons.
OK	Click to save system setup options and return to Main Menu.
CANCEL	Click to keep existing system setup options and return to Main Menu.

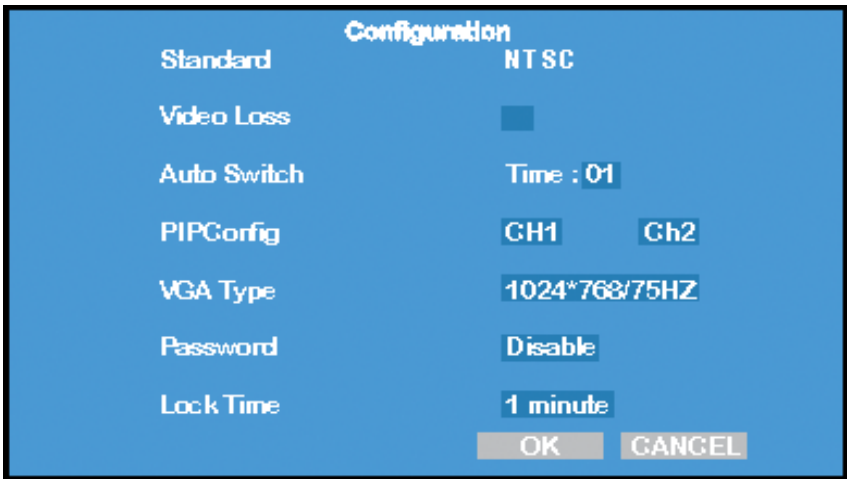
SYSTEM MENU

Access the System Menu from the Main Menu. Use this menu to set system options, change the user password, change date and time information, and view software and system information.



CONFIGURE

Access the Configure menu from the System Menu. Use this menu to set basic system parameters.



Standard — Present display standard for the system. Must be NTSC.

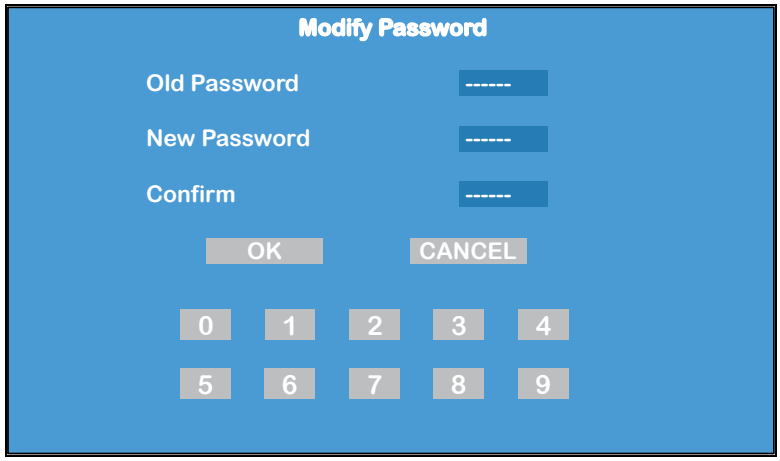
Video Loss — If there is video loss on any channel, the system will trigger the alarm buzzer. “X” indicates alarm is on.

Auto Switch — Display the interval time settings for the 4-channel preview auto circularity, 01-99 seconds.

PIPConfig	Picture-in-Picture Configuration. Select two picture channels; the first is the front picture, the second is the back picture.
VGA Type	VGA resolution settings modes are: 1024 * 768/75HZ, 1280 * 1024/60HZ, 800 * 600/75HZ.
Password	When the system boots up, a password prompt displays. Select Disable to avoid displaying the password login prompt. Select Enable to verify the correct password.
Lock Time	The system automatically locks the menu when there are no operations after the set period: 1, 2, 5, 10, 15, and 30 minutes, and 1 hour. Password is required at login.
OK	Click to save system setup options and return to Main Menu.
CANCEL	Click to keep existing system setup options and return to Main Menu.

MODIFY PASSWORD

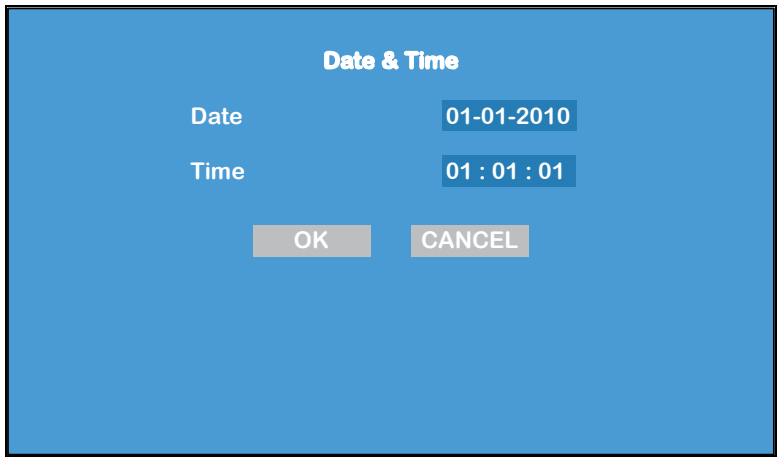
Access the Modify Password menu from the System Menu. Use this menu for password management.



Old Password	Input the old password; Default is 888888.
New Password	Input the new password.
Confirm	Repeat the new password. The password can be set to any number from 0 to 9 digits.
OK	Click to save system setup options and return to the Main Menu.
CANCEL	Click to keep existing system setup options and return to the Main Menu.

DATE & TIME

Access the Date & Time menu from the System Menu. Use this menu to change system date and time settings.

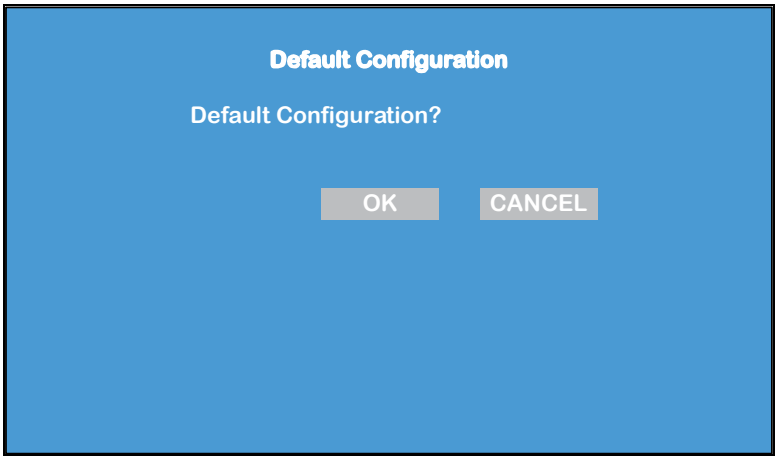


Date	System date format: year-month-date.
Time	System time format: hour-minute-second.
OK	Click to save system setup options and return to Main Menu.
CANCEL	Click to keep existing system setup options and return to Main Menu.

Note: Time can not be changed when the DVR is recording. Quit the recording before changing the time.

DEFAULT

Access the Default Configure menu from the System Menu. Use this menu to return the system to the factory-set default configuration.



OK	Click to save system setup options and return to Main Menu.
CANCEL	Click keep existing system setup options and return to Main Menu.

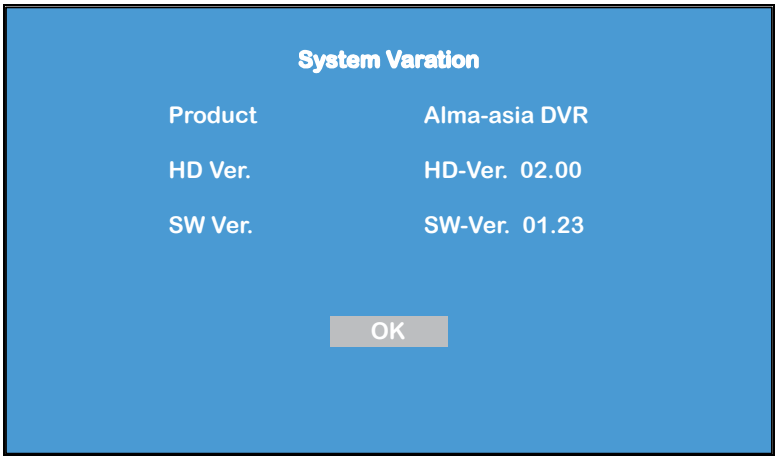
RESET

Access the Reset menu from the System Menu. Use this menu to restore previously set system options.

OK	Click to save system setup options and return to Main Menu.
CANCEL	Click keep existing system setup options and return to Main Menu.

SYSTEM VARIATION

Access the System Variation (About) menu from the System Menu. Use this menu to view product information, hard drive version, and software version.



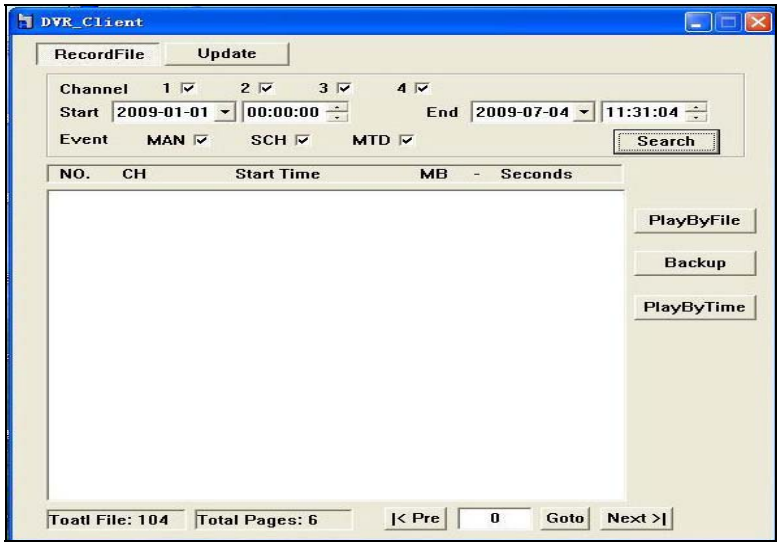
DVR Client

This chapter describes the DVR Client software that can be installed on a PC and used to record, playback, and search for video segments.

INSTALLATION

Connect the DVR unit to the PC using the USB cable (provided). Insert the DVR-Client CD and double click “DVR_Client Setup CHS” program. Follow the instructions on the installation menu. When the installation is complete, a shortcut icon will display on the PC desktop. Double click the client software icon, to start the DVR-Client program.

RECORD SEARCHING



Channel — Select the channel number: 1, 2, 3, or 4. Mark indicates selected; mark indicates not selected.

Start Time — Set the start time for the search.

End Time — Set the end time for the search.

Event — Select the recording type. There are 3 options: manual, timing, and motion. Mark indicates selected; mark indicates not selected.

PlaybackByFile — Select one channel. Set the schedule and event, and click the Playback by File button to view the playback menu. The file will playback from the start time to the end time.

Backup	Select the file to be backed-up from the File Search List. Click the File Backup button. Select the directory and file type. Click the OK button to save.
PlaybackByTime	Select the file. Click the Playback by Time button to display the Playback menu.

Note: There are two type of file MJPEG and AVI. MJPEG files can only be played via the client software. AVI files can be played using a regular player, such as Media Player. The AVI format will take a longer time and the video file will not be as clear.

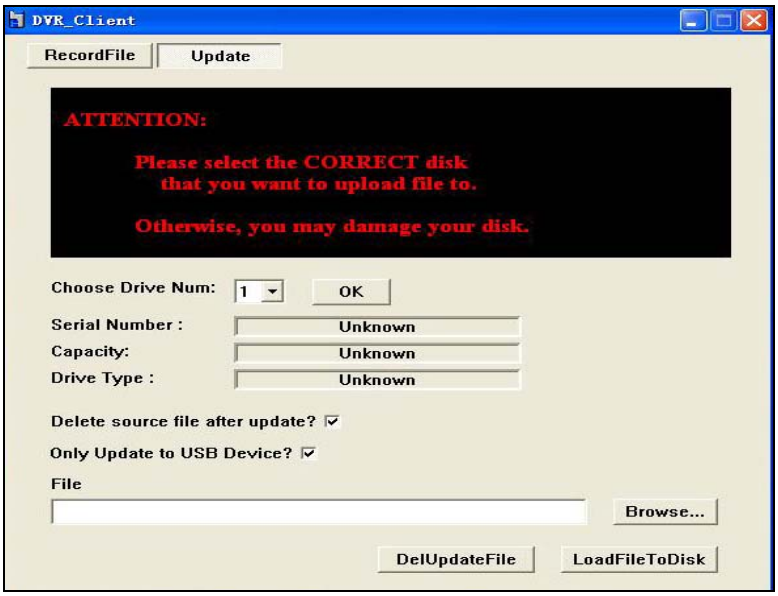
PLAYBACK CONTROL

In file playback, the playing states for controls are: schedule state, pause/play, frame play, fast forward / slow progressive, screenshot, and return.

Schedule state	Move anywhere in the schedule state to control the playback schedule.
Pause / play	Click to playback the record file.
Frame play	Set up the end time for the search.
Fast forward / Slow progressive	Playback at different speeds.
Mouse	Click the right mouse button to display the control bar. Click the corresponding icon: 2 times faster, 4 times faster, 8 times faster, 2 times slower, 4 times slower, 8 times slower
ScreenShot	Click to pause playback and view a saved prompt. Select the directory and file type, then click OK to save.

UPDATE

Start the client software, and select the Upgrade menu.



INPUT THE UPGRADE FILE

To upgrade the software:

1. Browse to and select the hard disk area. Press the OK button to view the hard disk information, including hard disk model number, capacity, and connection type. Make sure the correct hard disk is in the DVR.

   Note: Make sure that the hard disk is the right one, or the dates in the hard disk will be destroyed.

2. Click the checkbox next to "Delete the source file after upgrade?" to delete the source file after upgrading.
3. Click the checkbox next to "Only ppgrade to USB Device" to input only the upgrade file to the USB hard disk.
4. Select the upgrade file. Click the Browse button and the selected system file will be input (R5104-SYS-*-*).
5. Input file: click the Input File button, and the system will input the file into the hard disk.
6. Shut off the client software and quit the USB device. This way of quitting is the same for the U disk or a portable hard disk.
7. Disconnect the USB cable.

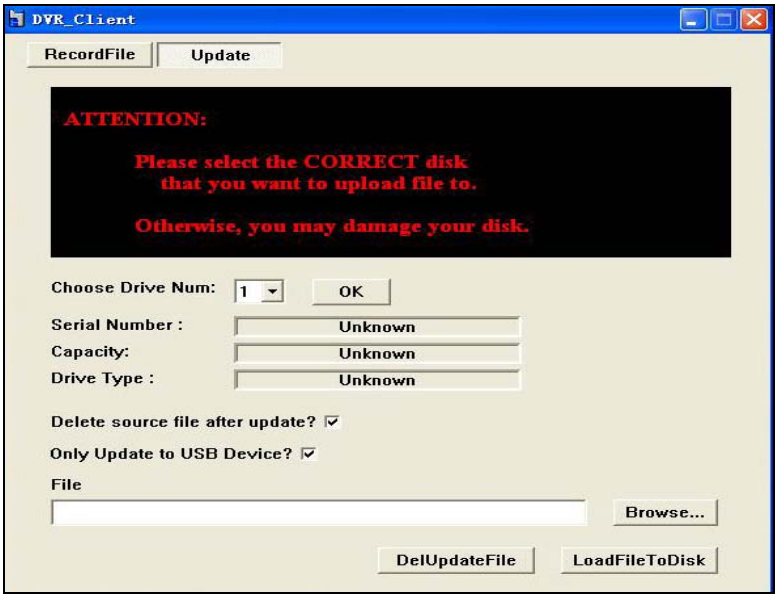
SYSTEM UPGRADES

To upgrade the system:

1. Disconnect the USB cable and restart the DVR. The system will examine the upgrade file automatically, and start the upgrade process.
2. During the upgrade, the siren will sound and the display screen will flash.
3. When the upgrade is finished, the system will restart and display the Operation menu.
4. If there is an error, turn off the power and repeat the above steps.

DELETE SYSTEM FILES FROM HDD

To delete an upgraded hard disk file, available through the USB cable from the DVR equipment PC, open the client software, go to the Upgrade option, select the hard drive disk you want to remove, and click the Confirm button to view hard disk information, including: type, disk size, and connections. Click the Delete/Update File button to view the updated or deleted file.



Open Client software, and press the Enter Playback menu.

SELECT BACKUP FILE

Select the backup file:

1. Click the Open button. Select the backup file to playback.
2. Open the Backup file directory. Drag the file to the client playback procedures.

The backup interface has the following options:

Open	Select the backup file playback. When playing a file, the open button will change to a pause/play button, click the button to pause or play the backup file.
Progress bar	Position the location of the progress bar used to control the progress of the video file playback.
Frame backup	Click to backup a single video frame.
Fast forward/ Slow progressive	Select the playback speed: 1 × 2 (speed) × 4 (speed) × 8 (speed) × 1 / 2 (speed) × 1 / 4 (speed) × 1 / 8 (speed).
Capture	Click to suspend video playback. The options will be saved as part of the user interface. Select the storage directory and click Save.
Stop	Exit the playback interface.

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Troubleshooting

Problem	Solution
No picture.	Make sure the cameras and receiver are plugged in. Make sure the TV/ VCR/ DVR is tuned to the correct input channel.
A white image appears at night.	The camera's infrared LEDs shine invisible light that reflects off surfaces such as glass causing white light. Place the camera on the other side of windows or place the lens flush against the surface to improve night vision. Relocate the camera to a well-lit area.
The display turns off after 30 minutes.	This is a feature of the product designed to protect the LCD screen from overheating and burning out.
Why does the DVR run slow when it starts?	There may be too much data on the HDD. The DVR checks data when it starts and this may cause the system to start slowly. HDD error – The system tests the HDD repeatedly during startup and this may cause the system to start slowly.
Why does the system keep rebooting after the host self-test?	Check the HDD. Make sure the HDD partition is not in the FAT32 format, and that the HDD does not have a problem. Either of these situations could cause the host to reboot. Check Video Parameter setting, if the host is in the PAL state but the video input is NTSC, the host will keep rebooting.
Why does the system turn off when a video is playing or when checking video information during the normal routine?	Check the HDD connection and make sure it is secure. Change the HDD if there is a problem.
Why does the video display only in black and white?	Check to make sure the video input, DVR host, monitor, and TV format match. If they do not match, set the monitor or TV format to the auto detect state.
Why does real-time video and record data have color and light distortion problems?	Reboot DVR, in order to recover previous settings. Adjust Video setting in the DVR setting menu.

Problem	Solution
Why is there no display on the monitor or computer VGA?	Check to make sure the power adaptor is working and the output is connected properly. Make sure the monitor is turned on and the video cable is connected properly. Connect the power and turn on the DVR, if there is a blue screen, but no video on the monitor, change to a corresponding channel to attempt to display the video.
Why does the video have "water waves"?	There might be a broken video cable, short circuit, or bad solder connection. The video cable can be disturbed by strong power so make sure it is not next to a strong power cable. Use a good quality cable. In this system, only a single line connected to the ground is permitted. Please connect the host to the ground through the ground screw located on the back panel. Make sure the camera, monitor or cables do not have aging problems.

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Technical Information

GENERAL

Operating Power	DC 12V
Remote Control	Yes
Mouse	Yes
USB Connection	Yes
PC Backup	USB connection
4-Camera Multi-View	Yes

CAMERA

Image Device	CMOS
Video System	NTSC
Resolution	400 TV lines
White Balance	Automatic
Lens	6 mm
Infrared LEDs	30
Effective Pixels	NTSC: 656 (H) x 492 (V)
Signal/Noise Ratio	> 48 dB
Gain Control	Automatic
Backlight Compensation	Automatic
Night Vision Distance	up to 50 ft
Operating Temperature	14°F – 122°F
Dimensions (camera & stand)	5.5” x 2.8” x 7.0”
Indoor/Outdoor	Both

DVR AND VIDEO

Video System	NTSC
Video In	BNC 4-channel inputs
Video Out	Monitor and BNC
Display Resolution	NTSC: 680 (H) x 480 (V)
Compression Format	MJPEG
Recording Resolution	NTSC: 352 x 240, 120 fps
Recording Frame Rate	1 fps – 30 fps max.
Recording Modes	Manual / Schedule / Motion
HDD Interface / Memory Type	SATA, up to 500 GB

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Warranty

PRODUCT LIMITED WARRANTY

BRK Brands, Inc., ("BRK") the maker of First Alert® brand products warrants that for a period of one year from the date of purchase (the "Warranty Period"), this product will be free from defects in material and workmanship. BRK, at its sole option, will repair or replace this product or any component of the product found to be defective during the Warranty Period. Replacement or repair will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original retail purchaser only from the date of initial retail purchase and is not transferable. In order to obtain warranty service, you must keep the original sales receipt and proof of purchase in the form of the UP code from the package. BRK dealers, service centers, or retail stores selling BRK products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

WARRANTY EXCLUSIONS

Parts and Labor: 1 year limited (warranted parts do not include bulbs, LEDs, and batteries)

This warranty does not apply to bulbs, LEDs, and batteries supplied with or forming part of the product.

This warranty is invalidated if non- BRK accessories are or have been used in or in connection with the product or in any modification or repair is made to the product.

This warranty does not apply to defects or damages arising by use of the product in other than normal (including normal atmospheric, moisture and humidity) conditions or by installation or use of the product other than in strict accordance with the instructions contained in the product owner's manual.

This warranty does not apply to defects in or damages to the product caused by (i) negligent use of the product, (ii) misuse, abuse, neglect, alteration, repair or improper installation of the product, (iii) electrical short circuits or transients, (iv) usage not in accordance with product installation, (v) use of replacement parts not supplied by BRK, (vi) improper product maintenance, or (vii) accident, fire, flood or other Acts of God.

This warranty does not cover the performance or functionality of any computer software included in the package with the product. BRK makes no warranty that the software provided with the product will function without interruption or otherwise be free of anomalies, errors, or "Bugs." This warranty does not cover any costs relating to removal or replacement of any product or software installed on your computer.

BRK reserves the right to make changes in design or to make additions to or improvements in its products without incurring any obligations to modify any product which has already been manufactured. BRK will make every effort to provide updates and fixes to its software via its website. This warranty does not cover any alteration or damage to any

other software that may be or may become resident on the users system as a result of installing the software provided. This warranty is in lieu of other warranties, expressed or implied, and BRK neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of the product. In no event shall BRK be liable for any special or consequential damages arising from the use of the product or arising from the malfunctioning or non-functioning of the product, or for any delay in the performance of this warranty due to any cause beyond its control.

BRK does not make any claims or warranties of any kind whatsoever regarding the product's potential, ability, or effectiveness to prevent, minimize, or in any way affect personal or property damage or injury. BRK is not responsible for any personal damage, loss, or theft related to the product or to its use for any harm, whether physical or mental related thereto. Any and all claims or statements, whether written or verbal, by salespeople, retailers, dealers, or distributors to the contrary are not authorized by BRK, and do not affect this provision of this warranty.

BRK's responsibility under this, or any other warranty, implied or expressed, is limited to repair, replacement or refund, as set forth above. These remedies are the sole and exclusive remedies for any breach of warranty. BRK is not responsible for direct, special, incidental, or consequential damages resulting from any breach of warranty or under any other legal theory including but not limited to, loss profits, downtime, goodwill, damage to or replacement of equipment and property and any costs of recovering, reprogramming or reproducing any program or data stored in or used with a system containing the product accompanying software.

BRK does not warrant the software will operate with any other software except that which is indicated. BRK cannot be responsible for characteristics of their party hardware or software which may effect the operation of the software included.

Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above Warranty Period. Some states, provinces, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state, or province to province, or jurisdiction to jurisdiction.

OBTAINING SERVICE

If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-323-9005, 7:30 a.m. – 5:00 p.m. Central Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of purchase available when calling.

After contacting the Consumer Affairs Division and it is determined that the product should be returned for Warranty Service, please mail the product to: Lehigh, 2834 Schoeneck Rd, Macungie, PA 18062-9679.